

COMPRESSOR DEFINITION

Designation	NT U6234GKV
Nominal Voltage/Frequency	208-230 V 60 Hz
Engineering Number	925BD50

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-404A		
3 Nominal voltage and frequency	208-230 / 60	[V / Hz]	
4 Application type	Medium Back Pressure (Commercial Compressors)		
4.1 Evaporating temperature range	-20°C to 10°C	(-4°F to 50°F)	
5 Motor type	CSCR		
6 Starting torque	HST - High starting torque		
7 Expansion device	Capillary tube or Expansion valve		
8 Compressor cooling	Operating voltage range		
		50 Hz	60 Hz
8.1 LBP (32°C Ambient temperature)	-	-	-
8.2 LBP (43°C Ambient temperature)	-	-	-
8.3 HBP (32°C Ambient temperature)	-	-	-
8.4 HBP (43°C Ambient temperature)	-	-	-
9 Maximum condensing temperature			
9.1 Operating	25.2	[kgf/cm ²] (358 psig)	/ °C - °F
9.2 Peak	28.3	[kgf/cm ²] (402 psig)	/ °C - °F
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1 1/4	[hp]
2 Displacement	23.74	[cm ³] (1.449 cu.in)
2.1 Bore [mm]	38.100	
2.2 Stroke [mm]	20.830	
3 Lubricant charge	650	[ml] (21.98 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO22	
4 Weight (with oil charge)	18.1	[kg] (39.90 lb.)
5 Nitrogen charge	0.2 to 0.3	[kgf/cm ²] (2.84 to 4.27 psig)

C - ELECTRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	208-230 V 60 Hz 1~ (Single phase)	
2 Starting device type	Voltage Relay	
2.1 Starting device	RVA4AL3C-649/RVA4AL3D-672	
3 Start capacitor	108-130(330)	[µF(VAC minimum)]
4 Run capacitor	30(400)	[µF(VAC minimum)]
5 Motor protection	USP-577-84	
6 Start winding resistance	3.09	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	1.27	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (60 Hz)	46.00	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (60 Hz)	-	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (60 Hz)	-	[A] - Measured according to UL 984
11 Approval boards certification	UL	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @230V60Hz			ASHRAEHBP46 Fan		Evaporating temperature (Condensing temperature		7.2°C (44.96°F) 54.4°C (129.92°F)		
Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%			
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
15552	3919	4557	1680	8.28	128.03	9.26	2.33	2.71	

E - PERFORMANCE - CURVES

TEST CONDITIONS: @230V60Hz		ASHRAE46 Fan				(Condensing temperature 35°C (+95°F))				
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-20	(- 4)	7825	1972	2293	1006	5.08	49.69	7.78	1.96	2.28
-15	(+ 5)	9562	2409	2802	1079	5.40	61.03	8.87	2.24	2.60
-10	(+14)	11667	2940	3419	1150	5.70	74.92	10.15	2.56	2.98
-5	(+23)	14141	3563	4143	1218	6.00	91.49	11.61	2.93	3.40
0	(+32)	16983	4280	4976	1283	6.30	110.86	13.23	3.33	3.88
+5	(+41)	20195	5089	5918	1345	6.61	133.15	14.99	3.78	4.39
+10	(+50)	23775	5991	6967	1403	6.93	158.48	16.88	4.25	4.95

TEST CONDITIONS: @230V60Hz		ASHRAE46 Fan				(Condensing temperature 45°C (+113°F))				
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-20	(- 4)	6612	1666	1938	1066	5.34	46.32	6.21	1.56	1.82
-15	(+ 5)	8186	2063	2399	1171	5.80	57.70	6.99	1.76	2.05
-10	(+14)	10068	2537	2950	1271	6.24	71.46	7.92	2.00	2.32
-5	(+23)	12258	3089	3592	1364	6.65	87.72	8.98	2.26	2.63
0	(+32)	14756	3718	4324	1451	7.05	106.59	10.17	2.56	2.98
+5	(+41)	17561	4425	5146	1530	7.43	128.20	11.46	2.89	3.36
+10	(+50)	20674	5210	6058	1602	7.81	152.68	12.85	3.24	3.76

TEST CONDITIONS: @230V60Hz		ASHRAE46 Fan				(Condensing temperature 55°C (+131°F))				
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-20	(- 4)	5390	1358	1579	1100	5.38	42.39	4.90	1.24	1.44
-15	(+ 5)	6775	1707	1985	1242	6.08	53.64	5.45	1.37	1.60
-10	(+14)	8407	2119	2463	1374	6.73	67.08	6.11	1.54	1.79
-5	(+23)	10286	2592	3014	1497	7.34	82.83	6.87	1.73	2.01
0	(+32)	12411	3128	3637	1609	7.91	101.03	7.72	1.94	2.26
+5	(+41)	14784	3725	4332	1709	8.46	121.79	8.63	2.17	2.53
+10	(+50)	17403	4386	5100	1799	8.98	145.23	9.59	2.42	2.81

F - EXTERNAL CHARACTERISTICS

1 Base plate	Universal		
2 Tray holder	No		
3 Connectors			
3.1 SUCTION	12.77 +0.08/+0.00	[mm]	(0.503" +0.003"/+0.000")
3.1.1 Material	Copper		
3.1.2 Shape	Vertical		
3.2 DISCHARGE	9.6 +0.07/+0.00	[mm]	(0.378" +0.003"/+0.000")
3.2.1 Material	Copper		
3.2.2 Shape	Vertical		
3.3 PROCESS	6.42 +0.08/+0.00	[mm]	(0.253" +0.003"/+0.000")
3.3.1 Material	Copper		
3.3.2 Shape	Vertical		
3.4 Oil cooler (Copper)	No	[mm]	
3.5 Connector sealing	Rubber Plugs		